

TITLE: Collapsed Umbrella with Shrunk Volume

BACKGROUND OF THE INVENTION

A conventional collapsed umbrella, as shown in Figure 1 and 2, includes several ribs being pivoted in linear generally. When the umbrella is closed, as in Figure 3, the second rib (2) and the third rib (3) counted from outside will contact with each other at the pivoted position. Hence, the umbrella becomes a slight extension even in closed state that has a large volume. Though the umbrella can be forced as shown in Figure 4 to be shrunk, it will elastically expend to the structure as in Figure 3 as soon as being released. Because of the collision between the second rib (2) and the third rib (3) as being folded, the collapsed umbrella can't be effectively shrunk the closed volume.

Accordingly, the present invention is to provide an improved structure to overcome the drawback of the prior art, which uses a novel, pivoted structure to connect with the second and third rib in collocate. So the closed volume of the collapsed umbrella will be effectively shrunk. Now, accompanying with the following drawings, the character of the present invention will be described here and after.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 is a front plan view showing a conventional collapsed umbrella in opened state.

Figure 2 is a top plan view of Figure 1.

Figure 3 is a plan view of Figure 1 in closed state.

Figure 4 is a plan view of Figure 3 being forced for shrinking.

Figure 5 is a front plan view showing a collapsed umbrella in opened state according to the present invention.

Figure 6 is a top plan view of Figure 5.

Figure 7 is a plan view of Figure 5 in semi-closed state.

5 Figure 8 is a plan view of Figure 5 in completely closed state.

Figure 9 is a perspective view showing parts of ribs of the collapsed umbrella according to the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

10 Please referring to Figure 5 and 6 firstly, the present invention relates to an improvement of a collapsed umbrella. In following description, a five-folded umbrella is illustrated and it is to limit the scope of the present invention. The character of the invention is to provide a joint (1) having a wide base for pivoting with the second rib (2) and the
15 third rib (3), being counted from outside of the frame of the umbrella, as shown in Figure 9, by two pins (11), (12) respectively. Accordingly, the second rib (2) and the third rib (3) will be in collision.

When the umbrella is closed, it will be in the state of Figure 7 firstly. Since the second rib (2) and the third rib (3) are side by side,
20 they can be placed in parallel without collocate as being forced to the position of Figure 8. It can be found that the collapsed umbrella of the present invention can be received with a shrunk volume effectively.

Furthermore, it will be understood that the present invention can be used in a four-folded umbrella or a six-folded, or more, collapsed
25 umbrella.